



Improving Solid Waste Practices in the City of College Park



Ann Michelle Bolabo, Hoa Doan, Sean Stein, Rob Swam,
and Dr. Jose-Luis Izursa

What can YOU recycle?



Our Project

***Improve solid waste practices in
the City of College Park***

Based on **Maryland Zero Waste Plan**



Develop **3-YEAR PLAN** for the city to implement

Our Focus

Three sections:

Education

- Residents
- School Students

Outreach

- Residents

Composting

- Cost-Benefit Analysis
- Backyard Composting



Compost at DPW ready to be sold



Background On College Park's MSW

Sources:

4,400 single-family homes
53 multi-family units
33 businesses

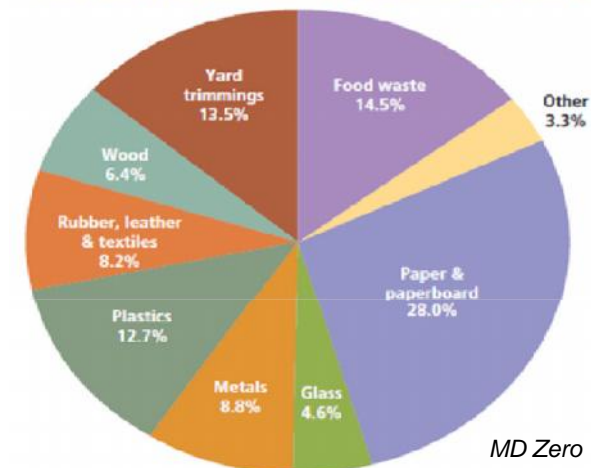
Disposal:

Trash ⇒ Brown Station Landfill

Recycling ⇒ Waste Management
Recycle America

Compost ⇒ On-site

Total MSW Generation by Material in the U.S., 2011



MD Zero Waste Plan
2014

2014 MSW Composition (CP)

Trash: 4,788.84 tons

Recycling: 1,423.48 tons

Compost: 3,461.05 tons

Zero Waste



Maryland Zero Waste plan:
Eliminate need for solid
waste disposal by 2040

Waste disposal hierarchy



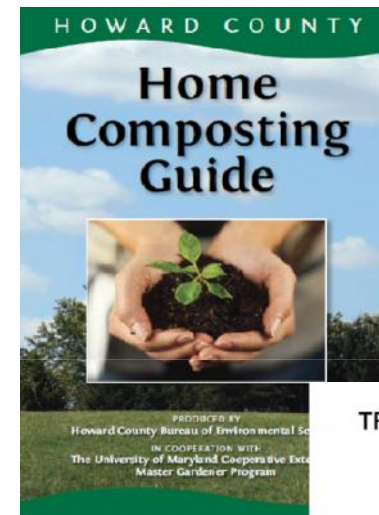


Methods: Education and Outreach

Analyzed *Resident Satisfaction Survey*

Administered and analyzed a *survey for 8th grade students* at the College Park Academy

Researched sample *educational materials* developed by other groups or municipalities



TRASH FREE SCHOOLS
Guidebook





City of College Park Resident Satisfaction Survey

Communication Preference:

Email: 64%

Website: 46%

Newspaper: 25%

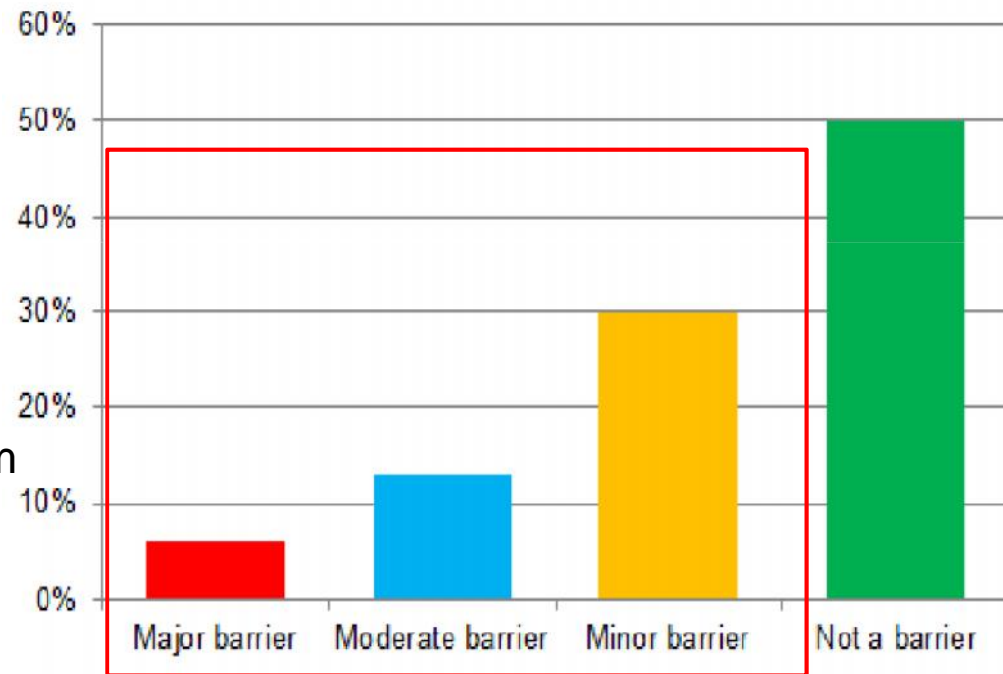
Post Mail: 21%

Rating Public Works Services:

SMARTLEAF/Compost Program

48%: "I don't know"

Greatest Barrier: Unsure of what can be recycled



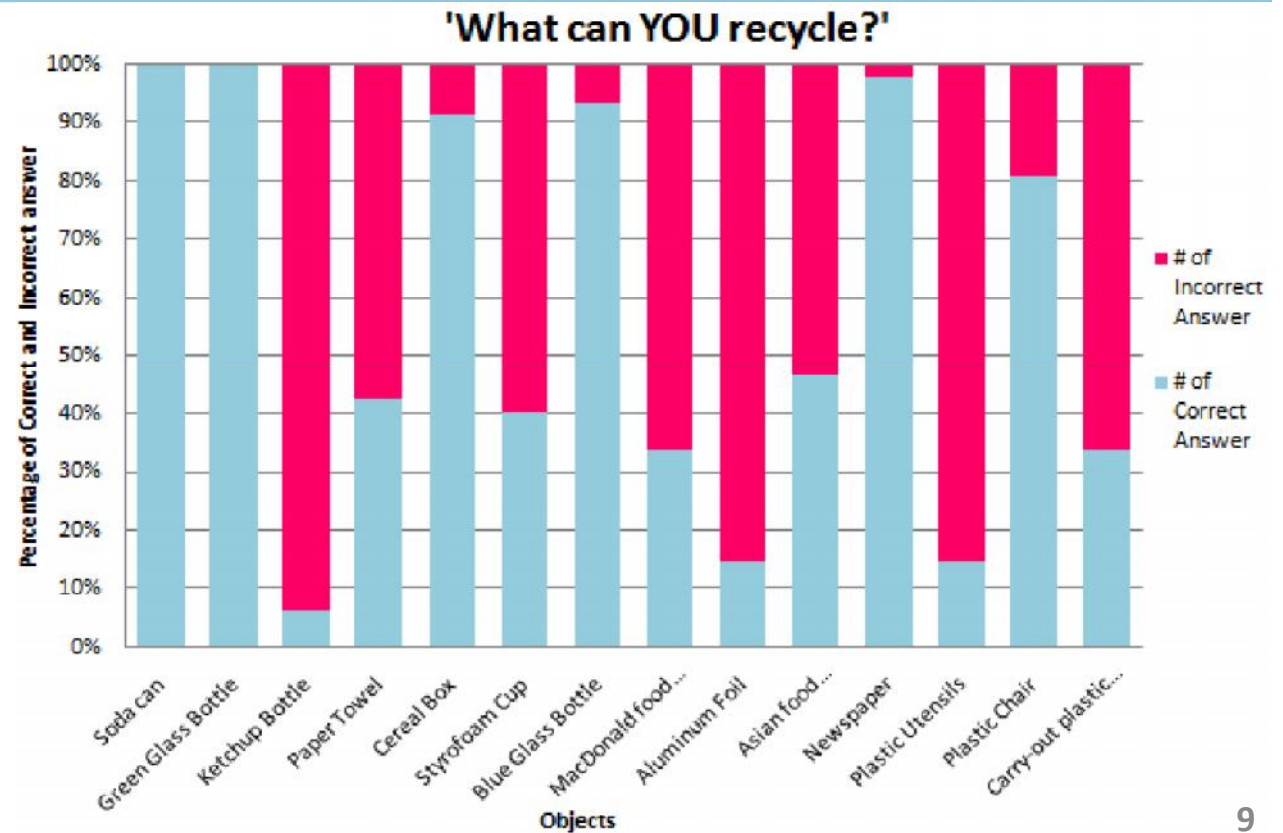
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Change graph to be less confusing

Ann Michelle Bolabo,



College Park Academy Survey





Methods: Public Works Composting

Cost-Benefit Analysis:

Collected and organized available city data on current composting operations

Analyzed data to determine total relevant expenses, savings and revenue

- *Expenses:* \$159,440.00
- *Revenue:* \$ 68,288.08
- *Avoided Fees:* \$204,351.00
- *Net Savings:* \$141,952.08

Suggest recommendations for improvement based on findings



Plan Goals

Train residents on waste reduction

Increase composting operations

Educate students on waste reduction strategies

25% waste reduction

25% recycling increase



3 Year Plan: Residents

Goal: *Educate residents on waste reduction and recycling*

Year 1

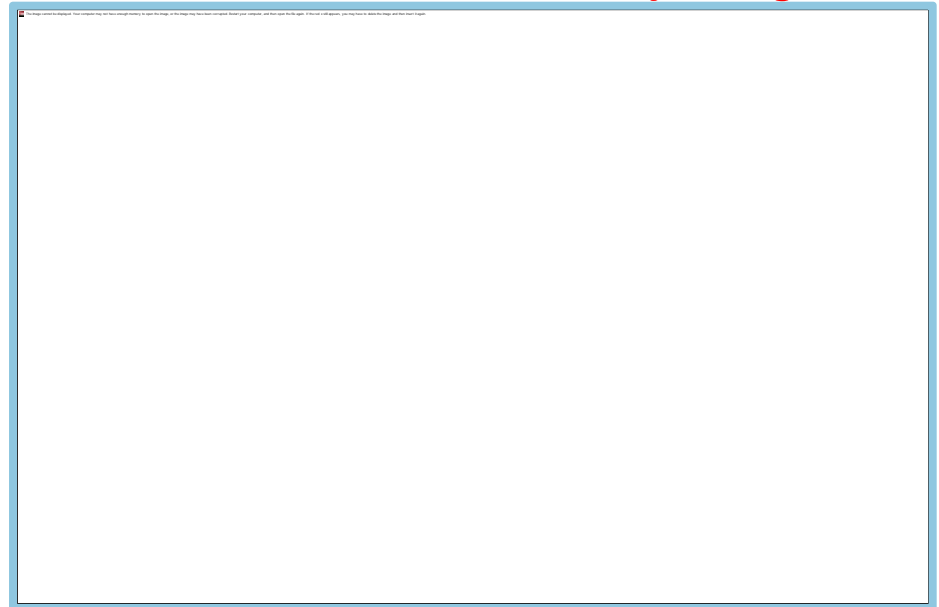
- Conduct waste audit
- Develop educational materials
- Develop recycling workshop

Year 2

- Distribute materials
- Run workshop

Year 3

- Conduct another waste audit
- Determine changes in waste content





3 Year Plan: Schools

Goal: *Educate students on waste-reduction strategies*

Year 1

Develop materials with CPA

Baseline: “Trash Free Schools” program

Create sustainable, environmentally-aware
school culture via waste reduction and education

Year 2

Implement materials

Expand to include all grades taught at CPA

+1 Elementary School

Year 3

+1 Elementary School

Compare and contrast from Years 1 and 2

Complete and expand plan





3 Year Plan: Public Works Composting

Goal: *Improve data collection and cost-effectiveness of composting operation*

Year 1

- Centralize and itemize all data at DPW
- Explore backyard compost options

Year 2

- Conduct another Cost-Benefit Analysis for DPW operation
- Suggest changes or cuts

Year 3

- Implement recommendations
- Use savings on other community projects



Summary

Work With:

Residents
Schools

Improve:

Compost education
DPW Compost operation

Achieve:

25% Municipal Solid Waste reduction





Questions?





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